

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-204122

(43)Date of publication of application : 30.07.1999

(51)Int.Cl.

H01M 8/02

H01M 8/10

(21)Application number : 10-007726

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 19.01.1998

(72)Inventor : CHISAWA HIROSHI

KOGAMI TAIJI

SAITO KAZUO

UENO SANJI

(54) SOLID POLYELECTROLYTE FUEL CELL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a solid polyelectrolyte fuel cell which is capable of operating for long period and having high reliability by reducing shearing stresses generated in a solid polymeric film so as to prevent cross leakages due to the breakage of the film, and enhancing gas sealing capability.



SOLUTION: A sheet 9 is disposed in such a manner as to be held inbetween from a solid polymeric film 3 and a sealant 8 to the interface between the solid polymeric film 3 and catalyst layers 2a, 2b of gas diffused electrodes 1a, 1b. The sheet 9 is constituted of a tetrafluoroethylene-perfluoroalkylvinyl ether copolymer (PFA) having a thickness of 25 µm.